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DATE: 12/18/2001
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VERIFICATION SUMMARY REPORT

PATENT APPLICATION

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GENERAL INFORMATION SECTION

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6, ALLERGY
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10,<140> 09/701,623
11,<141> 2000-12-01
13,<150> PCT/US99/13959
14,<151> 1999-06-21
16,<150> 09/100,287
17,<151> 1998-06-20
19,<160> 91
21,<170> PatentIn Ver. 2.1

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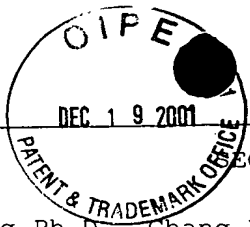
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STATISTICS SUMMARY

 Application Serial Number: 09/701,623
 Alpha or Numeric: Numeric
 Application Class:
 Application File Date: 2000-12-01
 Art Unit:
 Software Application: PatentIn
 Total Number of Sequences: 91
 Total Nucleotides: 0
 Total Amino Acids: 4055
 Number of Errors: 0
 Number of Warnings: 18
 Number of Corrections: 0

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Asp Gly Gln Lys Ala Thr Asn Ile Phe Pro Tyr Thr Ala Pro Gly Thr
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Gly Glu Trp Val Ser Gln Lys Thr Tyr Thr Cys Gln Gly Phe Thr Phe
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Lys Asp Glu Ala Arg Lys Cys Ser Glu Ser Asp Pro Arg Gly Val Thr
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Ser Tyr Leu Ser Pro Pro Ser Pro Leu Asp Leu Tyr Val His Lys Ala
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Pro Lys Ile Thr Cys Leu Val Val Asp Leu Ala Thr Met Glu Gly Met

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Arg Val Thr His Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala					
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<301> Steen,
<303> J. Mol. Biol.
<304> 177
<306> 19-32
<307> 1984

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<303> EMBO J.
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<307> 1982

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Asp Arg Lys Ile Tyr Asp Thr His Ala Gln Asn Val Leu Ile Lys Glu
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Glu Gly Lys Leu Ala Ser Thr Tyr Ser Arg Leu Asn Ile Thr Gln Gln
65 70 75 80

Gln Trp Met Ser Glu Ser Thr Phe Thr Cys Lys Val Thr Ser Gln Gly
85 90 95

Glu Asn Tyr Trp Ala His Thr Arg Arg Cys Ser Asp Asp Glu Pro Arg
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Gly Val Ile Thr Tyr Leu Ile Pro Pro Ser Pro Leu Asp Leu Tyr Glu

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 35 40 45
 Asp Asp Arg Glu Ile Thr Asp Thr Leu Ala Gln Thr Val Leu Ile Lys
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 Glu Glu Gly Lys Leu Ala Ser Thr Cys Ser Lys Leu Asn Ile Thr Glu
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 Gly Cys Asp Tyr Leu Ala His Thr Arg Arg Cys Pro Asp His Glu Pro
 100 105 110
 Arg Gly Ala Ile Thr Tyr Leu Ile Pro Pro Ser Pro Leu Asp Leu Tyr
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 Glu Lys Asn Val Asn Val Thr Trp Asn Gln Glu Lys Lys Thr Ser Val
 145 150 155 160
 Ser Ala Ser Gln Trp Tyr Thr Lys His His Asn Asn Ala Thr Thr Ser
 165 170 175
 Ile Thr Ser Ile Leu Pro Val Val Ala Lys Asp Trp Ile Glu Gly Tyr
 180 185 190
 Gly Tyr Gln Cys Ile Val Asp Arg Pro Asp Phe Pro Lys Pro Ile Val
 195 200 205
 Arg Ser Ile Thr Lys Thr Pro Gly Gln Arg Ser Ala Pro Glu Val Tyr
 210 215 220
 Val Phe Pro Pro Pro Glu Glu Glu Ser Glu Asp Lys Arg Thr Leu Thr
 225 230 235 240
 Cys Leu Ile Gln Asn Phe Phe Pro Glu Asp Ile Ser Val Gln Trp Leu
 245 250 255

Gly Asp Gly Lys Leu Ile Ser Asn Ser Gln His Ser Thr Thr Thr Pro
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Leu Lys Ser Asn Gly Asn Gln Gly Phe Phe Ile Phe Ser Arg Leu Glu
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<220>
<221> MOD_RES
<222> (32)
<223> G, T

<220>
<221> MOD_RES
<222> (33)
<223> I, M, V

<400> 22
Thr Ala Lys Ser Lys Lys Phe Pro Ser Tyr Thr Ala Thr Tyr Gln Phe
1 5 10 15

Gly Gly Xaa Xaa Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Xaa Glu Xaa
20 25 30

Xaa Gly Gly Cys Gly Glu Thr Tyr Gln Ser Arg Val Thr His Pro His
35 40 45

Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Cys
50 55 60

<210> 23
<211> 56
<212> PRT
<213> Artificial Sequence

<220>
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synthesized from amino acids with no genetic
material as source

<220>
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<222> (15)
<223> I, M, L

<220>
<221> MOD_RES
<222> (16)
<223> S, T

<220>
<221> MOD_RES
<222> (19)
<223> K, R

<220>
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 <222> (20)
 <223> G, T

<220>
 <221> MOD_RES
 <222> (24)
 <223> H, T

<220>
 <221> MOD_RES
 <222> (25)
 <223> K, R

<220>
 <221> MOD_RES
 <222> (26)
 <223> I, M, L

<220>
 <221> MOD_RES
 <222> (28)
 <223> G, T

<220>
 <221> MOD_RES
 <222> (29)
 <223> I, M, V

<400> 23
 Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Gly Gly Xaa Xaa
 1 5 10 15
 Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Xaa Glu Xaa Xaa Gly Gly Cys
 20 25 30
 Gly Glu Thr Tyr Gln Ser Arg Val Thr His Pro His Leu Pro Arg Ala
 35 40 45
 Leu Met Arg Ser Thr Thr Lys Cys
 50 55

<210> 24
 <211> 46
 <212> PRT

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<220>

<221> MOD_RES

<222> (4)

<223> S, T

<220>

<221> MOD_RES

<222> (7)

<223> K, R

<220>

<221> MOD_RES

<222> (8)

<223> G, T

<220>

<221> MOD_RES

<222> (12)

<223> H, T

<220>

<221> MOD_RES

<222> (13)

<223> K, R

<220>

<221> MOD_RES

<222> (16)

<223> G, T

<400> 24

Ile Ser Ile Xaa Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Ile Glu Xaa
1 5 10 15

Ile Leu Phe Gly Gly Cys Gly Tyr Gly Tyr Gln Ser Ile Val Asp His
20 25 30

Pro Asp Phe Pro Lys Pro Ile Val Arg Ser Ile Thr Lys Cys
35 40 45

<210> 25
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 25
Lys Lys Lys Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile Thr Thr
1 5 10 15
Ile Asp Gly Gly Cys Gly Tyr Gly Tyr Gln Ser Ile Val Asp His Pro
20 25 30
Asp Phe Pro Lys Pro Ile Val Arg Ser Ile Thr Lys Cys
35 40 45

<210> 26
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 26
Lys Lys Lys Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile Thr Thr
1 5 10 15
Ile Asp Gly Gly Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His Pro
20 25 30
His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys
35 40 45

<210> 27
<211> 46
<212> PRT
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<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<220>

<221> MOD_RES

<222> (1)

<223> I, M, L

<220>

<221> MOD_RES

<222> (2)

<223> S, T

<220>

<221> MOD_RES

<222> (7)

<223> K, L

<220>

<221> MOD_RES

<222> (8)

<223> G, R

<220>

<221> MOD_RES

<222> (9)

<223> V, T

<220>

<221> MOD_RES

<222> (10)

<223> I, V

<220>

<221> MOD_RES

<222> (14)

<223> I, T

<220>

<221> MOD_RES

<222> (15)

<223> E, R

<220>

<221> MOD_RES

<222> (16)

<223> G, M

<220>

<221> MOD_RES

<222> (19)

<223> F, T

<220>

<221> MOD_RES

<222> (20)

<223> G, M

<400> 27

Xaa Xaa Ile Ser Glu Ile Xaa Gly Val Xaa Val His Lys Xaa Xaa Xaa
1 5 10 15

Ile Leu Xaa Xaa Gly Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His
20 25 30

Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys
35 40 45

<210> 28

<211> 49

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 28

Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro
1 5 10 15

Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu
20 25 30

Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser
35 40 45

Arg

<210> 29

<211> 60

<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 29

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn
1 5 10 15

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu
20 25 30

Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val Val Asp Leu Ala
35 40 45

Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg
50 55 60

<210> 30

<211> 64

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 30

Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys
1 5 10 15

Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser
20 25 30

Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val
35 40 45

Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg
50 55 60

<210> 31
 <211> 76
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 31
 Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Ser Gln Val Thr Tyr
 1 5 10 15
 Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn
 20 25 30
 Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu
 35 40 45
 Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val Val Asp Leu Ala
 50 55 60
 Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg
 65 70 75

<210> 32
 <211> 35
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 32
 Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro
 1 5 10 15
 Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu
 20 25 30
 Val Val Asp
 35

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<210> 33
 <211> 46
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 33
 Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn
 1 5 10 15
 Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu
 20 25 30
 Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val Val Asp
 35 40 45

<210> 34
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 34
 Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys
 1 5 10 15
 Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser
 20 25 30
 Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val
 35 40 45
 Val Asp
 50

<210> 35
 <211> 62

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<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 35

Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Ser Gln Val Thr Tyr
1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn
20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu
35 40 45

Phe Ile Arg Lys Ser Pro Thr Ile Thr Ser Leu Val Val Asp
50 55 60

<210> 36

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 36

Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro
1 5 10 15

Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile
20 25

<210> 37

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic

material as source

<400> 37

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn
1 5 10 15

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu
20 25 30

Phe Ile Arg Lys Ser Pro Thr Ile
35 40

<210> 38

<211> 44

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 38

Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys
1 5 10 15

Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser
20 25 30

Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile
35 40

<210> 39

<211> 56

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 39

Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Ser Gln Val Thr Tyr
1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn
 20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu
 35 40 45

Phe Ile Arg Lys Ser Pro Thr Ile
 50 55

<210> 40

<211> 76

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 40

Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Cys Gln Val Thr Tyr
 1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn
 20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro Phe Asp Leu
 35 40 45

Phe Ile Arg Lys Ser Pro Thr Ile Thr Cys Leu Val Val Asp Leu Ala
 50 55 60

Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg
 65 70 75

<210> 41

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 41

Cys Lys Gln Arg Asn Gly Thr Leu Thr Cys
 1 5 10

<210> 42
 <211> 45
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 42
 Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Cys Gln Val Thr Tyr
 1 5 10 15

Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys Ala Asp Ser Asn
 20 25 30

Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser Pro
 35 40 45

<210> 43
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 43
 Cys Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg Ala Ser Gly
 1 5 10 15

Lys Pro Val Asn His Ser Thr Arg Lys Glu Glu Lys Gln Arg Asn Gly
 20 25 30

Thr Cys

<210> 44
 <211> 33

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<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 44

Cys Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys
1 5 10 15

Arg Val Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr
20 25 30

Cys

<210> 45
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 45

Ser Thr Thr Lys Thr Ser Gly Pro Arg Ala Ala Pro Glu Val
1 5 10

<210> 46
<211> 14
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 46

Cys Trp Ser Arg Ala Ser Gly Lys Pro Val Cys Asn His Ser
1 5 10

<210> 47
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 47
Cys Ser Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr
1 5 10 15

Ile Thr Cys

<210> 48
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 48
Cys Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Pro Cys
1 5 10

<210> 49
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 49
Cys Pro Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Pro Cys
1 5 10 15

<210> 50
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 50
Cys Lys Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Cys
1 5 10 15

<210> 51
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 51
Lys Glu Glu Lys Gln Arg Asn Gly
1 5

<210> 52
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 52
Cys Trp Ser Arg Ala Ser Gly Lys Pro Val Cys
1 5 10

<210> 53
<211> 21

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<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 53

Pro Thr Ile Thr Cys Leu Val Leu Asp Leu Ala Pro Ser Lys Gly Thr
1 5 10 15

Val Asn Leu Thr Cys
20

<210> 54

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 54

Pro Thr Ile Thr Cys Leu Val Leu Asp Leu Ala Pro Ser Lys Gly Thr
1 5 10 15

<210> 55

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 55

Thr Ser Thr Leu Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr
1 5 10 15

Tyr Gln Cys Arg Val Thr His Pro His
20 25

<210> 56
<211> 16
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 56

Pro Thr Ile Thr Ser Leu Val Leu Cys Leu Ala Pro Ser Lys Gly Cys
1 5 10 15

<210> 57
<211> 23
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 57

Cys Val Asn Leu Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His
1 5 10 15

Ser Thr Arg Lys Glu Glu Cys
20

<210> 58
<211> 53
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 58

Cys Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg
1 5 10 15

Lys Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu
20 25 30

Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg
35 40 45

Val Thr His Pro His
50

<210> 59
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 59
Lys Thr Lys Gly Ser Gly Phe Phe Val Phe
1 5 10

<210> 60
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<220>
<221> MOD_RES
<222> (4)
<223> S, T

<220>
<221> MOD_RES
<222> (7)
<223> K, R

<220>
<221> MOD_RES
<222> (8)

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<223> G, T

<220>

<221> MOD_RES

<222> (12)

<223> H, T

<220>

<221> MOD_RES

<222> (13)

<223> K, R

<220>

<221> MOD_RES

<222> (16)

<223> G, T

<400> 60

Ile Ser Ile Xaa Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Ile Glu Xaa
1 5 10 15

Ile Leu Phe

<210> 61

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 61

Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val
1 5 10 15

<210> 62

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic

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material as source

<400> 62

Gly Ile Leu Glu Ser Arg Gly Ile Lys Ala Arg Ile Thr His Val Asp
1 5 10 15

Thr Glu Ser Tyr
20

<210> 63

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 63

Lys Lys Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10 15

Leu

<210> 64

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 64

Lys Lys Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys
1 5 10 15

Val Ser Ala Ser His Leu
20

<210> 65

<211> 30

<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 65

Lys Lys Leu Arg Arg Leu Leu Tyr Met Ile Tyr Met Ser Gly Leu Ala
1 5 10 15

Val Arg Val His Val Ser Lys Glu Glu Gln Tyr Tyr Asp Tyr
20 25 30

<210> 66

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 66

Tyr Asp Pro Asn Tyr Leu Arg Thr Asp Ser Asp Lys Asp Arg Phe Leu
1 5 10 15

Gln Thr Met Val Lys Leu Phe Asn Arg Ile Lys
20 25

<210> 67

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 67

Gly Ala Tyr Ala Arg Cys Pro Asn Gly Thr Arg Ala Leu Thr Val Ala
1 5 10 15

Glu Leu Arg Gly Asn Ala Glu Leu
20

<210> 68
<211> 15
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 68

Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp
1 5 10 15

<210> 69
<211> 21
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 69

Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
1 5 10 15

Asn Ala Pro Ile Leu
20

<210> 70
<211> 20
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 70

Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp Thr Ala Ser Ala
 1 5 10 15

Leu Tyr Arg Glu
 20

<210> 71
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 71
 Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
 1 5 10 15

Met Thr Leu Ala
 20

<210> 72
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Peptide
 synthesized from amino acids with no genetic
 material as source

<400> 72
 Trp Val Arg Asp Ile Ile Asp Asp Phe Thr Asn Glu Ser Ser Gln Lys
 1 5 10 15

Thr

<210> 73
 <211> 19
 <212> PRT
 <213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 73

Arg Ala Gly Arg Ala Ile Leu His Ile Pro Thr Arg Ile Arg Gln Gly
1 5 10 15

Leu Glu Arg

<210> 74

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 74

Ala Val Ala Glu Gly Thr Asp Arg Val Ile Glu Val Leu Gln Arg Ala
1 5 10 15

Gly Arg Ala Ile Leu
20

<210> 75

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 75

Ala Leu Asn Ile Trp Asp Arg Phe Asp Val Phe Ser Thr Leu Gly Ala
1 5 10 15

Thr Ser Gly Tyr Leu Lys Gly Asn Ser
20 25

<210> 76
<211> 22
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 76

Asp Ser Glu Thr Ala Asp Asn Leu Glu Lys Thr Val Ala Ala Leu Ser
1 5 10 15

Ile Leu Pro Gly His Gly
20

<210> 77
<211> 39
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 77

Glu Glu Ile Val Ala Gln Ser Ile Ala Leu Ser Ser Leu Met Val Ala
1 5 10 15

Gln Ala Ile Pro Leu Val Gly Glu Leu Val Asp Ile Gly Phe Ala Ala
20 25 30

Thr Asn Phe Val Glu Ser Cys
35

<210> 78
<211> 21
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic

material as source

<400> 78

Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
1 5 10 15

Asn Val Val Asn Ser
20

<210> 79

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 79

Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg
1 5 10 15

Ile

<210> 80

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 80

Gly Leu Gln Gly Lys Ile Ala Asp Ala Val Lys Ala Lys Gly
1 5 10

<210> 81

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 81

Gly Leu Ala Ala Gly Leu Val Gly Met Ala Ala Asp Ala Met Val Glu
1 5 10 15

Asp Val Asn

<210> 82

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 82

Ser Thr Glu Thr Gly Asn Gln His His Tyr Gln Thr Arg Val Val Ser
1 5 10 15

Asn Ala Asn Lys
20

<210> 83

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
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material as source

<400> 83

Cys Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Cys
1 5 10 15

<210> 84

<211> 25

<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 84

Cys Gly Glu Thr Tyr Lys Ser Thr Val Ser His Pro Asp Leu Pro Arg
1 5 10 15

Glu Val Val Arg Ser Ile Ala Lys Cys
20 25

<210> 85
<211> 60
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<222> (27)
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<400> 85
Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Gly Gly Ile Ser
1 5 10 15

Ile Xaa Glu Ile Xaa Xaa Val Ile Val Xaa Xaa Ile Glu Xaa Ile Leu
20 25 30

Phe Gly Gly Cys Gly Gly Thr Tyr Gln Ser Arg Val Thr His Pro His
35 40 45

Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Cys
50 55 60

<210> 86
<211> 17
<212> PRT
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<223> Description of Artificial Sequence: Peptide
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material as source

<400> 86
Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg
1 5 10 15

Ile

<210> 87
<211> 62
<212> PRT
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synthesized from amino acids with no genetic

material as source

<400> 87

Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg
1 5 10 15

Ile Lys Lys Lys Lys Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile
20 25 30

Thr Thr Ile Asp Lys Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His
35 40 45

Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys
50 55 60

<210> 88

<211> 57

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 88

Thr Ile Asn Lys Pro Lys Gly Tyr Val Gly Lys Glu Lys Lys Lys Lys
1 5 10 15

Ile Ile Thr Ile Thr Arg Ile Ile Thr Ile Ile Thr Tyr Ile Asp Lys
20 25 30

Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His Pro His Leu Pro Lys
35 40 45

Asp Ile Val Arg Ser Ile Ala Lys Cys
50 55

<210> 89

<211> 19

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic

material as source

<400> 89

Ile Ser Leu Thr Glu Ile Arg Thr Val Ile Val Thr Arg Leu Glu Thr
1 5 10 15

Val Leu Phe

<210> 90

<211> 45

<212> PRT

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<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 90

Ile Ser Leu Thr Glu Ile Arg Thr Val Ile Val Thr Arg Leu Glu Thr
1 5 10 15

Val Leu Phe Lys Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr His Pro
20 25 30

His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys
35 40 45

<210> 91

<211> 63

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Peptide
synthesized from amino acids with no genetic
material as source

<400> 91

Lys Trp Phe Lys Thr Asn Ala Pro Asn Gly Val Asp Glu Lys Ile Arg
1 5 10 15

Ile Lys Ile Ser Leu Thr Glu Ile Arg Thr Val Ile Val Thr Arg Leu
20 25 30

Glu Thr Val Leu Phe Lys Cys Gly Glu Thr Tyr Tyr Ser Arg Val Thr
35 40 45

His Pro His Leu Pro Lys Asp Ile Val Arg Ser Ile Ala Lys Cys
50 55 60

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